07/26/2005 14:35 FAX @ 004/010

Customer No.: 31561
Docket No.: I 1285-US-PA

Application No.: 10/605,238

In The Claims:

Claim 1 (currently amended) A method of reworking integrated circuit devices, suitable

for reworking a barrier layer, a conductive layer and an anti-reflective layer formed on a

dielectric layer, the method comprising:

performing a dry etching process for removing the anti-reflective layer;

performing a wet etching process using an etching solution for removing the conductive

layer, wherein

the etching solution contains sulfuric acid when the material of the conductive layer

comprises Al, Al-Cu alloy, Al-Si-Cu alloy or tungsten; and

the etching solution containing nitric acid when the conductive layer comprises Cu; and

removing the barrier layer.

Claim 2 (original) The method of reworking integrated circuit devices of claim 1,

wherein the material of the anti-reflective layer is selected from a group consisting of Ti/TiN,

amorphous silicon and Ta/TaN, and the dry etching process for removing the anti-reflective layer

is performed using a gas source selected from a group consisting of Cl2, BCl3, hydrocarbon

containing halogen and SF₆.

Claim 3 (currently amended) The method of reworking integrated circuit devices of

claim + 2, wherein the hydrocarbon containing halogen comprises CHF3 or CCl4.

Claims 4-7 (canceled)

Claim 8 (currently a mended) The method of reworking integrated circuit devices of

claim-4 2, wherein the step of removing the barrier layer comprises performing a chemical

mechanical polishing process.

3

07/28/2005 14:35 FAX Ø 005/010

Customer No.: 31561 Docket No.:11285-US-PA

Application No.: 10/605,238

Claim 9 (original) The method of reworking integrated circuit devices of claim 8,

wherein the chemical mechanical polishing process uses a polishing slurry comprising aluminum

oxide and hydrogen peroxide.

Claim 10 (original) The method of reworking integrated circuit devices of claim 1,

wherein the step of removing the barrier layer comprises performing a chemical mechanical

polishing process.

Claim 11 (original) The method of reworking integrated circuit devices of claim 10,

wherein the chemical mechanical polishing process is performed using a polishing slurry

comprising aluminum oxide, hydrogen peroxide and ammonium hydroxide.

Claim 12 (currently amended) A method of reworking integrated circuit devices,

suitable for reworking a barrier layer, a conductive layer and an anti-reflective layer formed on a

dielectric layer, the method comprising:

removing the anti-reflective layer;

performing a wet etching process for removing the conductive layer; and

performing a chemical mechanical polishing process using a polishing slurry comprising

aluminum oxide, hydrogen peroxide and ammonium hydroxide for removing the barrier layer.

Claims 13-14 (canceled)

Claim 15 (original) The method of reworking integrated circuit devices of claim 12,

wherein the material of the conductive layer comprises Al, Al-Cu alloy or Al-Si-Cu alloy, and the

wet etching process for removing the conductive layer is performed using an etching solution

containing sulfuric acid.

į

4

07/26/2005 14:36 FAX Ø 006/010

Customer No.: 31561 Docket No.:11285-US-PA

Application No.: 10/605,238

Claim 16 (original) The method of reworking integrated circuit devices of claim 12,

wherein the material of the conductive layer comprises tungsten, and the wet etching process for

removing the conductive layer is performed using an etching solution containing sulfuric acid.

Claim 17 (original) The method of reworking integrated circuit devices of claim 12,

wherein the conductive layer comprises Cu, and the wet etching process for removing the

conductive layer is performed using an etching solution containing nitric acid.

Claim 18 (currently amended) A method of reworking integrated circuit devices,

suitable for reworking a barrier layer, a conductive layer and an anti-reflective layer formed on a

dielectric layer, the method comprising:

removing the anti-reflective layer;

removing the conductive layer; and

performing a chemical mechanical polishing process using a polishing slurry comprising

aluminum oxide, hydrogen peroxide and ammonium hydroxide for removing the barrier layer.

Claim 19 (canceled)

Claim 20 (new) The method of reworking integrated circuit devices of claim 18, wherein

the step of removing the anti-reflective layer is performed by a dry etching process.

Claim 21 (new) The method of reworking integrated circuit devices of claim 20, wherein

the material of the anti-reflective layer is selected from a group consisting of Ti/TiN, amorphous

silicon and Ta/TaN, and the dry etching process is performed by using a gas source selected from

a group consisting of Cl₂, BCl₃, hydrocarbon containing halogen and SF₆.

5

07/28/2005 14:38 FAX

2007/010

Customer No.: 31561 Docket No.:11285-US-PA Application No.: 10/605,238

Claim 22 (new) The method of reworking integrated circuit devices of claim 21, wherein the hydrocarbon containing halogen comprises CHF₃ or CCl₄.

Claim 23 (new) The method of reworking integrated circuit devices of claim 12, wherein the step of removing the anti-reflective layer is performed by a dry etching process.

Claim 24 (new) The method of reworking integrated circuit devices of claim 23, wherein the material of the anti-reflective layer is selected from a group consisting of Ti/TiN, amorphous silicon and Ta/TaN, and the dry etching process is performed by using a gas source selected from a group consisting of Cl₂, BCl₃, hydrocarbon containing halogen and SF₆.

Claim 25 (new) The method of reworking integrated circuit devices of claim 24, wherein the hydrocarbon containing halogen comprises CHF₃ or CCl₄.